I CLAIM:

1. A lubricating structure of an engine for vehicle, comprising:

a main pump for pressure-feeding lubrication oil collected in a bottom portion of a transmission room formed in a crankcase of the engine to lubrication points of the engine;

a scavenging pump for pumping the lubricating oil out of a bottom portion of a crank room formed in the crankcase, wherein the crank room is divided from the transmission room by a partition formed in at least the bottom portion of the crank room, and for transferring the lubricating oil to the transmission room, and wherein the scavenging pump includes a discharging portion;

an oil storage room disposed to the side of the transmission room, communicating with the discharging portion of the scavenging pump, and for storing the lubricating oil supplied from the scavenging pump;

a transmission shaft arranged in the transmission room such that one end portion of the transmission shaft faces the oil storage room; and

an oil passage formed in the transmission shaft, having an opening formed in the one end portion of the transmission shaft so as to open in the oil storage room, and extended from the opening to the lubrication points established on the transmission shaft;

wherein the lubricating oil supplied from the scavenging pump and stored in the oil storage room is supplied to the lubrication points on the transmission shaft from the opening formed in the one end portion of the transmission shaft through the oil passage, is dropped from the lubrication points, and then collected in the bottom portion of the transmission room.

2. The lubricating structure of Claim 1, wherein the oil passage includes an oil route formed along the axial center of the transmission shaft.

3. The lubricating structure of Claim 2, wherein the oil passage further includes an oil hole which connects the oil route and the lubrication points on the transmission shaft, and is formed in the transmission shaft in the radial direction.

4. The lubricating structure of Claim 3, wherein the oil storage room is arranged on the opposite side of the transmission room from a clutch which is disposed in either one of end portions of the transmission shaft.

5. The lubricating structure of Claim 4, further comprising:

a rod for clutch release operation inserted slidably in the oil passage axially formed in the transmission shaft so as to extend toward the clutch from the one end portion of the transmission shaft, wherein one end portion of the rod is coupled with a pressure plate of the clutch and other end portion thereof is coupled with a clutch operation mechanism which is arranged in the oil storage room;

wherein the rod is supported through a boss portion which is formed within the oil storage room.

6. The lubricating structure of Claim 1, wherein the oil storage room includes an exit hole formed at a position higher than a lowest point of the opening of the transmission shaft facing the oil storage room, and being communicating with the transmission room;

wherein the lubricating oil supplied from the scavenging pump and stored in the oil storage room is supplied to the transmission room through the exit hole.

7. The lubricating structure of Claim 6, further comprising:

at least one intermediate oil room formed between the oil storage room and the transmission room, and being communicating with both the oil storage room and the transmission room;

wherein the lubricating oil stored in the oil storage room is supplied to the intermediate oil room through the exit hole and then supplied to the transmission room through the intermediate oil room.